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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/581,885

09/14/00

JAKARA

J

3229-4003

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NEW YORK NY 10154

IM22/0913

EXAMINER

ALVO, M

ART UNIT

PAPER NUMBER

1731

DATE MAILED:

09/13/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.	Applicant(s)	
09/581,885	JAKARA ET AL.	
Examiner	Art Unit	
Steve Alvo	1731	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 June 2001.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 and 9-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 and 9-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-16 are rejected under 35 U.S.C. 103(a) as obvious over HEBBEL with or without WO 97/45586.

HEBBEL teaches bleaching pulp in a 5-stage bleaching process (Example VIII) starting with a per-compound, e.g. peracetic acid, and ending with a final (post bleaching) per compound bleaching stage. HEBBEL further teaches that a magnesium sulphate (alkaline earth compound) can be used as a complex builder or stabilizer. HEBBEL further teaches that a peracid could be used as the per compound, e.g. peracetic acid. It would have been obvious to use the peracetic acid of HEBBEL as the per compound. It would have been obvious to the routineer that after the first 4 stages of HEBBEL the brightness would be above 85% ISO and a kappa number less than 4 as HEBBEL teaches that after 4 stages the brightness is over 90% MgO (Example VII). See column 2, lines 45-49 for using 0.5 to 10 weight percent per compound. It would have been obvious to bleach the pulp at any point where pulp is normally bleached, e.g. flow pipe, storage tower or on the paper machine. Claim 6 is rejected as it would have been obvious to use other alkaline earth metal salts for the Mg of HEBBEL, see HEBBEL, column 3, line 34, for using

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$\text{Ca}(\text{OH})_2$ as the complex builder. The pH of the peracid stage would have obviously been acid. If the pH is not acidic, then WO 97/45586 teaches using a pH of 4-8 in a peracid and chelating stage stabilizes the peracid. It would have been obvious to use a pH of 4 to 8 to stabilize the peracid of HEBBEL as taught by WO 97/45586.

Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over HEBBEL with or without WO 97/45586 as applied to claim 1 above, and further in view of FOSSUM et al.

FOSSUM et al teaches the alternativeness of using alkaline earth sulfates and carbonates as a complex builder (chelating agent) or stabilizer in per acid bleaching. It would have been obvious to substitute the carbonate complex builder of FOSSUM et al for the sulphate complex builder of HEBBEL as their alternativeness is taught by FOSSUM et al. It would have been obvious to use the calcium salt (calcium carbonate) rather than the magnesium salt (Magnesium carbonate) as they are both alkaline earth metals and would be expected to be chemical equivalents. See HEBBEL column 3, line 34, for using calcium salts for the complex builder.

STEVENSON cited to teach the alternative use of MgCO_3 and CaCO_3 to neutralize acids in pulp.

Applicant's amendment adding the broad range of 3 to 8 of the pH, necessitated the new ground(s) of rejection presented in this Office action. It is also noted that this reference was Applicant's own publication and thus Applicant was aware of its teachings. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

When filing an **"Official" FAX** in Group 1730, please indicate in the Header (upper right) **"Official"** for papers that are to be entered into the file. The **"Official" FAX** phone numbers for this TC 1700 are:

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Any inquiry concerning this communication or earlier communications from the **primary examiner** should be directed to **Steve Alvo** whose telephone number is **(703) 308-2048**. The Examiner can normally be reached on Monday - Friday from **6:00 AM - 2:30 PM (EST)**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Stanley Silverman, can be reached on 703-308-3837.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the **Group receptionist** whose telephone number is **(703) 308-0661**.

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ices provided:

Patent Application Filing Receipts

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MSA
September 10, 2001



STEVE ALVO
PRIMARY EXAMINER
ART UNIT 1731